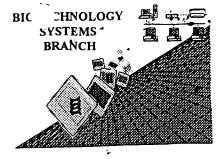
RAW SEQUENCE LISTING ERROR REPORT





The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/581,651

Source: AU 1642

TECH CENTER 1600/2900

Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS. PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 c-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2Kcompliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

RROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/581,651
TTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

AMC - Biotechnology Systems Branch - 06/04/2001

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

Input Set : A:\seqlist.txt
Output Set: N:\CRF3\08022001\I581651.raw

Does Not Comply
Corrected Diskette Needed

Supary 60f 7A

```
4 <110> APPLICANT: Schor, Seth Laurence
         Schor, Ana Maria
 7 <120> TITLE OF INVENTION: POLYPEPTIDES, POLYNUCLEOTIDES AND USES
 8
         THEREOF
10 <130> FILE REFERENCE: 350013-72
12 <140> CURRENT APPLICATION NUMBER: 09/581,651
13 <141> CURRENT FILING DATE: 2000-10-10
15 <160> NUMBER OF SEQ ID NOS: 15
17 <170> SOFTWARE: FastSEQ for Windows Version 3.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 660
21 <212> TYPE: PRT
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28
29
   Gln Cys Leu Gly Thr Ala Val Pro Ser Thr Gly Ala Ser Lys Ser Lys
30
   Arg Gln Ala Gln Gln Met Val Gln Pro Gln Ser Pro Val Ala Val Ser
31
32
                            55
   Gln Ser Lys Pro Gly Cys Tyr Asp Asn Gly Lys His Tyr Gln Ile Asn
33
34
   Gln Gln Trp Glu Arg Thr Tyr Leu Gly Asn Ala Leu Val Cys Thr Cys
35
36
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                                        90
   Tyr Gly Gly Ser Arg Gly Phe Asn Cys Glu Ser Lys Pro Glu Ala Glu
37
                                    105
39
   Glu Thr Cys Phe Asp Lys Tyr Thr Gly Asn Thr Tyr Arg Val Gly Asp
40
                                120
    Thr Tyr Glu Arg Pro Lys Asp Ser Met Ile Trp Asp Cys Thr Cys Ile
41
42
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43
   Gly Ala Gly Arg Gly Arg Ile Ser Cys Thr Ile Ala Asn Arg Cys His
                                            155
                        150
   Glu Gly Gln Ser Tyr Lys Ile Gly Asp Thr Trp Arg Arg Pro His
46
                                        170
   Glu Thr Gly Gly Tyr Met Leu Glu Cys Val Cys Leu Gly Asn Gly Lys
47
48
                                    185
49
   Gly Glu Trp Thr Cys Lys Pro Ile Ala Glu Lys Cys Phe Asp His Ala
50
                                200
           195
51
   Ala Gly Thr Ser Tyr Val Val Gly Glu Thr Trp Glu Lys Pro Tyr Gln
                            215
   Gly Trp Met Met Val Asp Cys Thr Cys Leu Gly Glu Gly Ser Gly Arg
                        230
                                            235
55
   Ile Thr Cys Thr Ser Arg Asn Arg Cys Asn Asp Gln Asp Thr Arg Thr
56
   Ser Tyr Arg Ile Gly Asp Thr Trp Ser Lys Lys Asp Asn Arg Gly Asn
```

Input Set : A:\seqlist.txt
Output Set: N:\CRF3\08022001\I581651.raw

58				260					265					270		
59	Tou	T 011	Cln		т1.	Crra	mb~	C1		<i>α</i> 1	7	01	a1	270	T	G
60	пец	цец	275	Cys	116	Cys	T 11T	280	ASII	СТУ	ALG	СТА	285	Trp	гĀЗ	Cys
61	Glu	Δra		Thr	Car	Va 1	Cln		Thr	eor	602	C1++		Gly	Dro	Dho
62	Gru	290	птэ	1111	261	Val	295	TIIT	T 11T	ser	ser	300	ser	СТА	PIO	Pile
63	Thr		17 a 1	λνα	7 l n	7 l n		Пттъ	Cln.	Dwo	C1 n		77.5 ~	Dma	01 -	D
64	305	ush	val	AIG	ніа	310	val	тут	GIII	PIO		PIO	HIS	Pro	GIII	
65		Dro	m	C1	mi a		37.0.7	mh	7	g	315	17 1	**- 1		0	320
66	PIO	PIO	тут	GTA	325	Cys	val	1111	ASP		СТА	val	vaı	Tyr		vai
67	C111	Mot	Cln	m-r-r		T	шь»	C15	a 1	330	T	01 -	11-4	Leu	335	m1
68	Gry	Het	GIII	340	ьeu	цуѕ	1111	GIII	345	ASII	ьуѕ	GIII	мес		Cys	Thr
69	Cvc	T 011	C1++		C117	Wa I	Com	Crra		<i>~</i> 1	mh	71.	17-1	350	01 -	m 1
70	Cys	neu	355	ASII		Val	ser	360	GIII	GIU	THE	Ата		Thr	GIN	Thr
71	mazz.	C117		7 an			C1		Dwo	0	171	т	365	nh a	m1	m
72	ıyı	370	СТУ	ASII	ser	ASII	375	GIU		Cys	Val		Pro	Phe	Thr	TAL
73	λan		7 20	Πh∞) an	Com				3	m	380	01 -	3	a 1	T
74	385	ASP	Arg	1117	ASP	390	TIIT	TIIL	ser	ASI	395	GIU	GIII	Asp	GIN	_
75		Com	Dha	0	mh		114.	m %	77 T	T		a1	ml	3	a 1	400
76	TAT	ser	Pne	Cys	405	ASP	HIS	THE	vaı		val	GIN	Thr	Arg	_	GIY
77	λαη	Cor	7 an	C1		T 0.11	0	III d	Dha	410	Dh.	T	Т	3	415	TT -
78	ASII	ser	ASII	420	Ата	ьец	Cys	HIS	425	PLO	Pne	ьеu	Tyr	Asn	ASN	HIS
79	λαη	Пттъ	mh w		0	mh	C ~ ~	<i>α</i> 1		3	3	3	•	430	T	
80	ASII	тут	435	ASP	Cys	THE	ser		СТА	Arg	Arg	ASP		Met	гàг	Trp
81	Crrc	C1**		Thr.	Cln.	A a n	Птт	440	710	3	01 m	T	445	01	Db -	G
82	Cys	450	1111	TIIL	GIII	ASII	455	ASP	Ата	ASP	GIN	_	Pne	Gly	Pne	Cys
83	Dro		λla	. ד ג	II i a	C1.,		т1.	Crra	mh w	mh m	460	a 1	Gly	17-1	37- 4
84	465	Het	AIG	АТа	птэ	470	GIU	TIE	Cys	TIII	475	ASII	GIU	СТА	Val	
85		λνα	T10	Clv	λαn		m rrn	λan	T ***	Cln		N an	Ma+	Gly	77.5 ~	480
86	1 Y 1	ALY	116	СТУ	485	GIII	пр	ASP	гух	490	nis	ASP	мес	GIY		мес
.87	Mot	λνα	Cve	Πhr		₩a 1	C1 17	λan	C1++		C1++	C1.,	m~~	Thr	495	т1.
88	Mec	Arg	Cys	500	Cys	vai	СТУ	ASII	505	мту	СТА	GIU	пр	510	Cys	TTG
89.	Δla	ጥህን	Sar		Leu	Δra	λen	Gln		Tlo	Wa 1	λcn	λαη	Ile	πh∞	Птт
90	1114	- 1 -	515	GIII	Lieu	лгу	кэр	520	Cys	116	vai	изр	525	TIE	T 11T	TYL
91	Asn	Va 1		Asn	ጥh r	Dho	Иie		λτα	uic	Cla	Clu		His	Mo+	Tou
92	11011	530	21011	тор	1111	1110	535	цуз	Arg	1113	Giu	540	СТУ	птэ	Met	ьеи
93	Asn		Thr	Cvs	Phe	Glv		G1v	Δrα	G1 v	Δra		T.vc	Cys	λen	Dro
94	545	0,0		O _I O	- 110	550	0111	OLY	nr 9	GLY	555	115	шуз	Суз	vab	560
95		Asp	Gln	Cvs	Gln		Ser	Glu	Thr	G1 v		Dho	ጥህጥ	Gln	т1Д	
96			0111	O ₁ O	565		501	Olu		570	T 11T	1110	111	GIII.	575	GLY
97	Asp	Ser	Tro	Glu		Tvr	Va l	Hic	Glv		Δrσ	Туг	Gln	Cys		Cve
98		501		580	2,5	-1-	,		585	· uı	nry	- y -	G I II	590	TYT	Суз
99	Tvr	Glv	Ara		Tle	Glv	Glu	Ψrn		Cvc	Gln	Dro	Τ.Δ11	Gln	Thr	ጥኒኒኒ
100	-1-		595			011	Olu	600		CYS	GIII	110	605		I 11I	тут
101	Pro	Ser			Glv	Pro	Va1			Dhe	Tle	Thr			Dro	Ser
102		610			0.27		615				. 110	620			110	Ser
103	Gln			Ser	His	Pro			Trn	Aen	<u>Δ</u> 1 =			Dro	Sar	His
104	625					630			. <u>-</u>	11011	635		GIII	· FIO	DET	640
105			Lvs	Tvr	Ile			Trn	Ara	Pro			Tla	Pro	Pro	Arg
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Input Set : A:\seqlist.txt

Output Set: N:\CRF3\08022001\I581651.raw

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119
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                                                                           240
     atcaacagtg ggagcggacc tacctaggca atgcgttggt ttgtacttgt tatggaggaa
120
                                                                           300
121
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                                                                           420
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                                                                         1800
    ggcattgcca acctttacag acctatccaa gctcaagtgg tcctgtcgaa gtatttatca
                                                                         1860
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    ctgagactcc gagtcagccc aactcccacc ccatccagtg gaatgcacca cagccatctc
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    acatttccaa gtacattctc aggtggagac ctgtgagtat cccacccaga aaccttggat
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    caactetgat taactattee tatageattt actatatttg tttagtgaac aaacaatatg
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154 <211> LENGTH: 20
155 <212> TYPE: PRT
156 <213> ORGANISM: Human
158 <400> SEQUENCE: 3
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Input Set : A:\seqlist.txt

Output Set: N:\CRF3\08022001\I581651.raw

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188 <212> TYPE: PRT
189 <213> ORGANISM: Human
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205 Arg Asp Gln Cys Ile
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210 <212> TYPE: PRT
211 <213> ORGANISM: Human
213 <400> SEQUENCE: 8
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216
    Tyr Gly Gly Ser Arg
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219 <210> SEQ ID NO: 9
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Input Set : A:\seqlist.txt

Output Set: N:\CRF3\08022001\I581651.raw

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222 <213> ORGANISM: Human
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227
     Cys Thr Thr Glu Gly Arg Gln Asp Gly His Leu Trp Cys Ser Thr Thr
228
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                 20
229
     Ser Asn Tyr Glu Gln Asp Gln
230
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232 <210> SEQ ID NO: 10
233 <211> LENGTH: 21
234 <212> TYPE: PRT
235 <213> ORGANISM: Human
237 <400> SEQUENCE: 10
238 Cys Thr Asp His Thr Val Leu Val Gln Thr Gln Gly Gly Asn Ser Asn
240 Gly Ala Leu Cys His
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243 <210> SEQ ID NO: 11
244 <211> LENGTH: 21
245 <212> TYPE: PRT
246 <213> ORGANISM: Human
248 <400> SEQUENCE: 11
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255 <211> LENGTH: 20
256 <212> TYPE: PRT
257 <213> ORGANISM: Human
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268 <213> ORGANISM: Human
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274 <210> SEQ ID NO: 14
275 <211> LENGTH: 24
276 <212> TYPE: PRT
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
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Description at Artificial Sequence is mandatory in Field 223 <210> 14 <211> 24 <212> PRT <213> Artificial Sequence <220> <400> 14 Glu Pro Cys Val Leu Pro Phe Thr Tyr Asn Asp Arg Thr Asp Ser Thr 10 15 Thr Ser Asn Tyr Glu Gln Asp Gln 20 <210> 15 <211>21 <212> PRT <213> Artificial Sequence <220>

<223> blank

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/581,651

DATE: 08/02/2001

TIME: 17:26:53

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\08022001\I581651.raw

L:281 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: